

HIS_DIGITAL



Innovation Week 2021 - Special Edition

SPHERO SPRK+

EXHIBITION

**SAM LABS
SMART HOME**

**WHICH
FINALISTS**

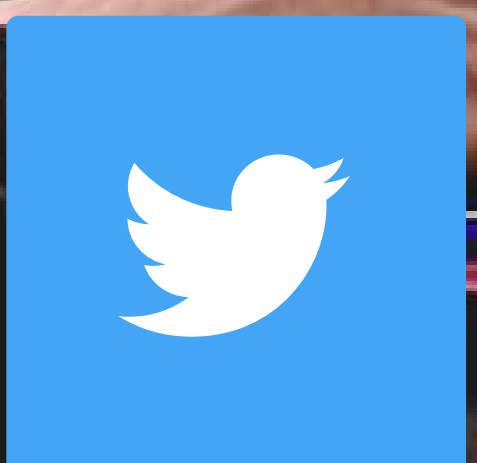
**WIN THE
INNOVATION
CHALLENGE?**

KUBO CODING

INNOVATION CHALLENGE

LEGO WE DO 2.0

ROBOTICS

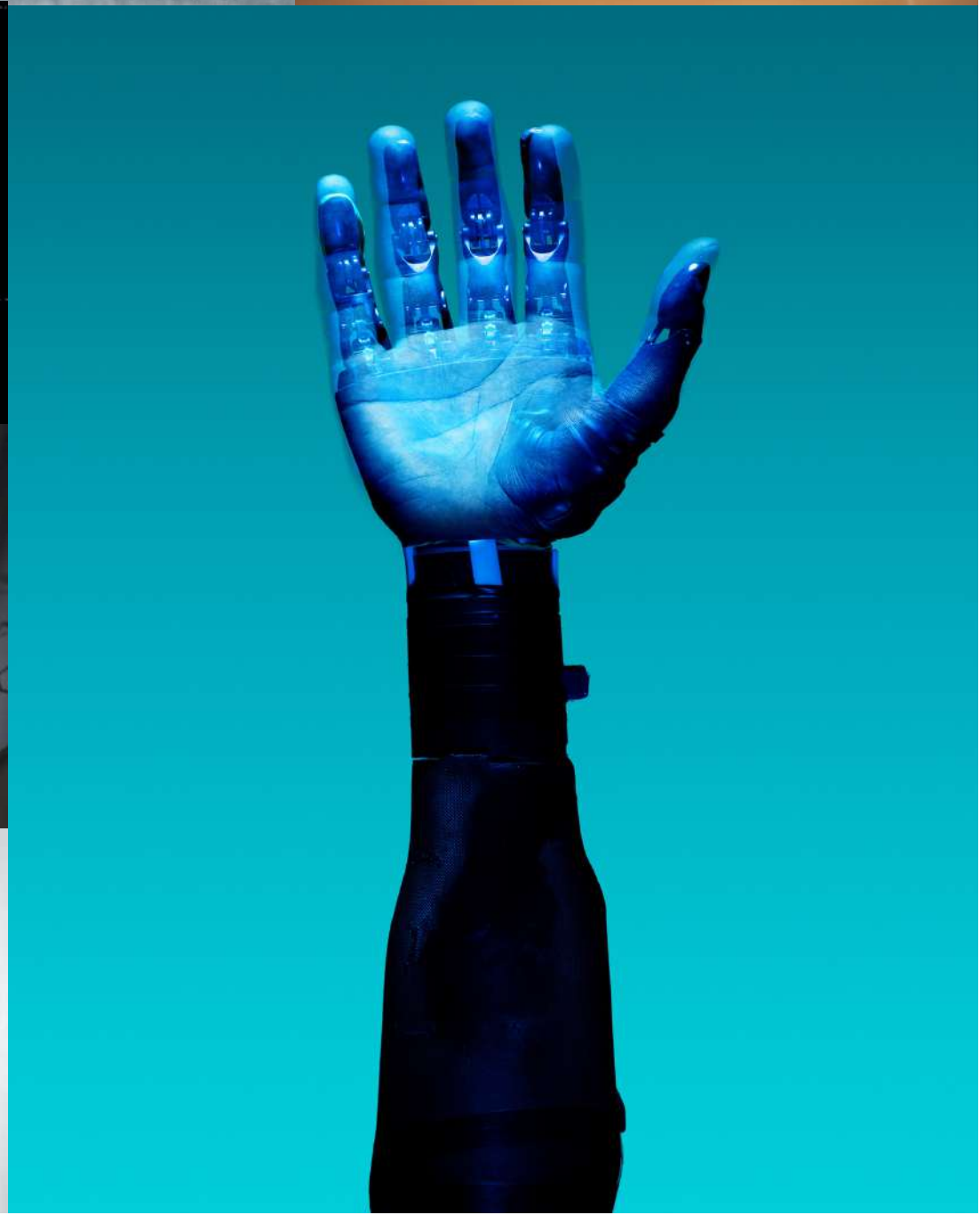
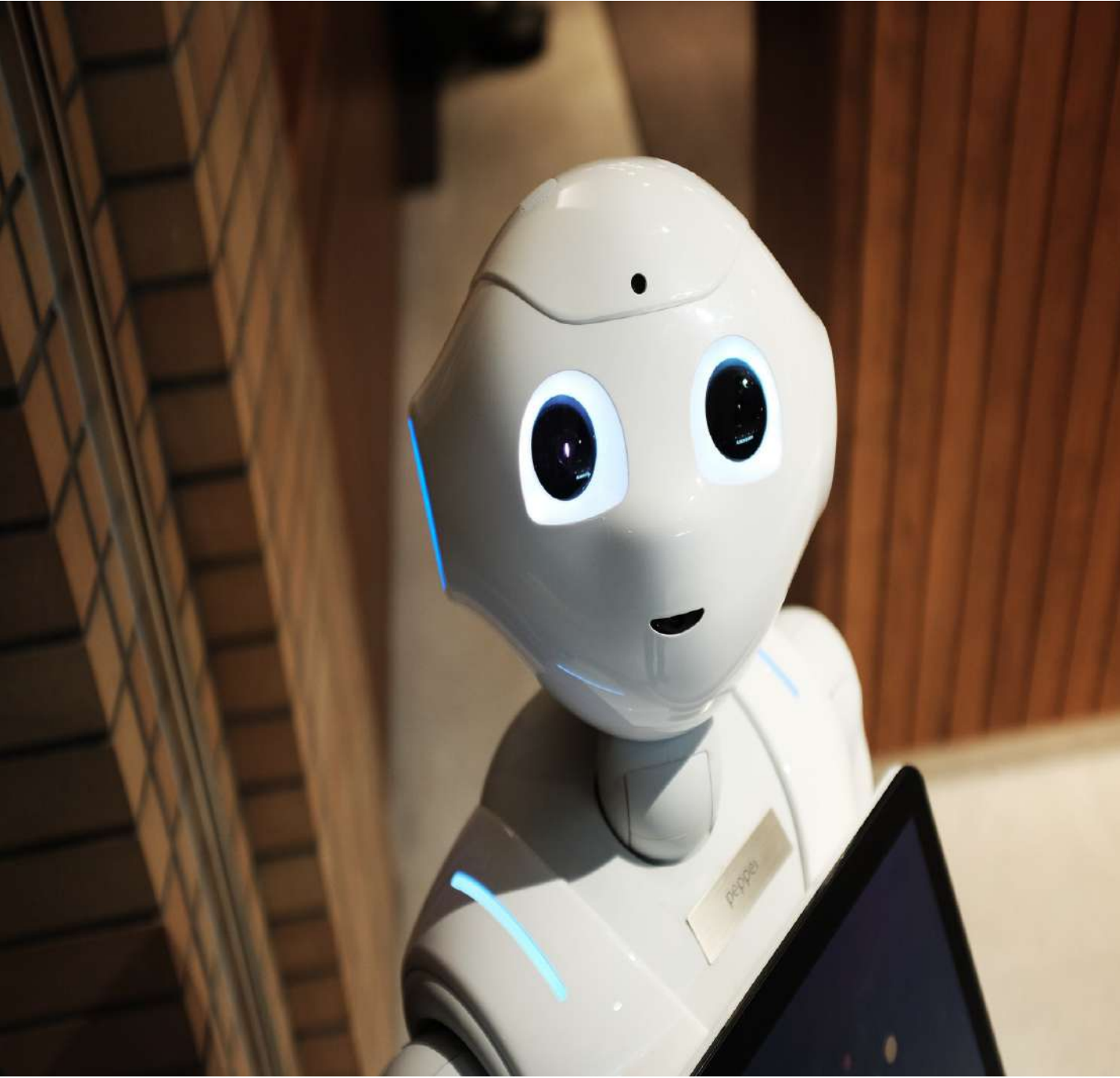


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INNOVATION WEEK 2021

The week beginning Sunday 21st February 2021 saw the relaunch of our Annual Innovation Week. Horizon International School teamed up with Atlab Middle East to ensure all of our students experienced a range of innovative activities, visited exhibitions to see technology used in industry today and also set key stages an innovation challenge.

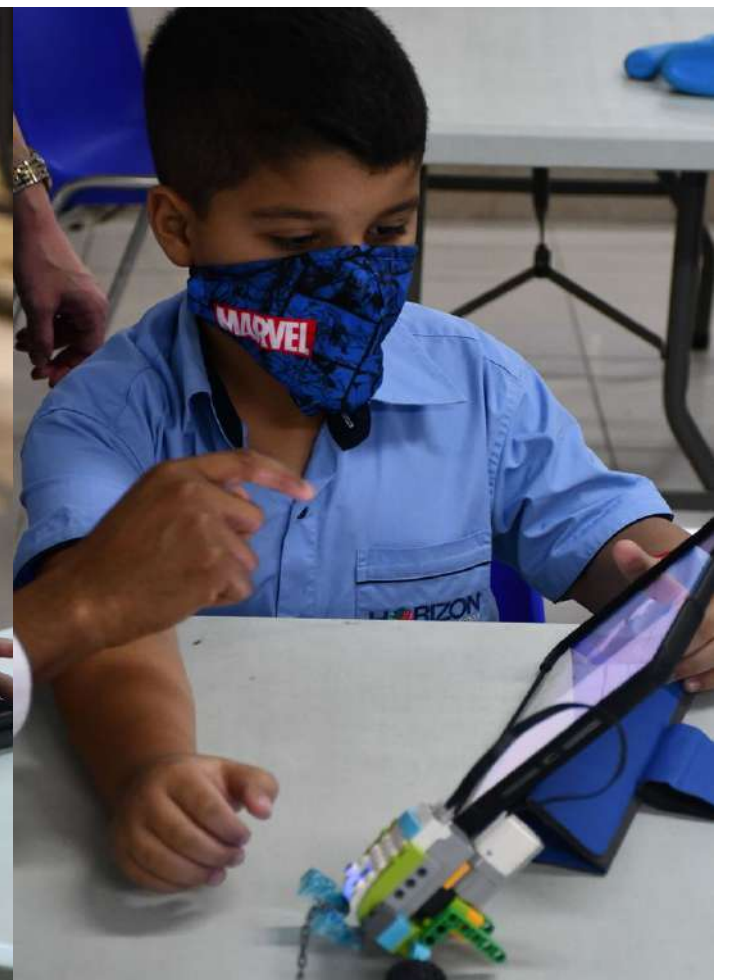
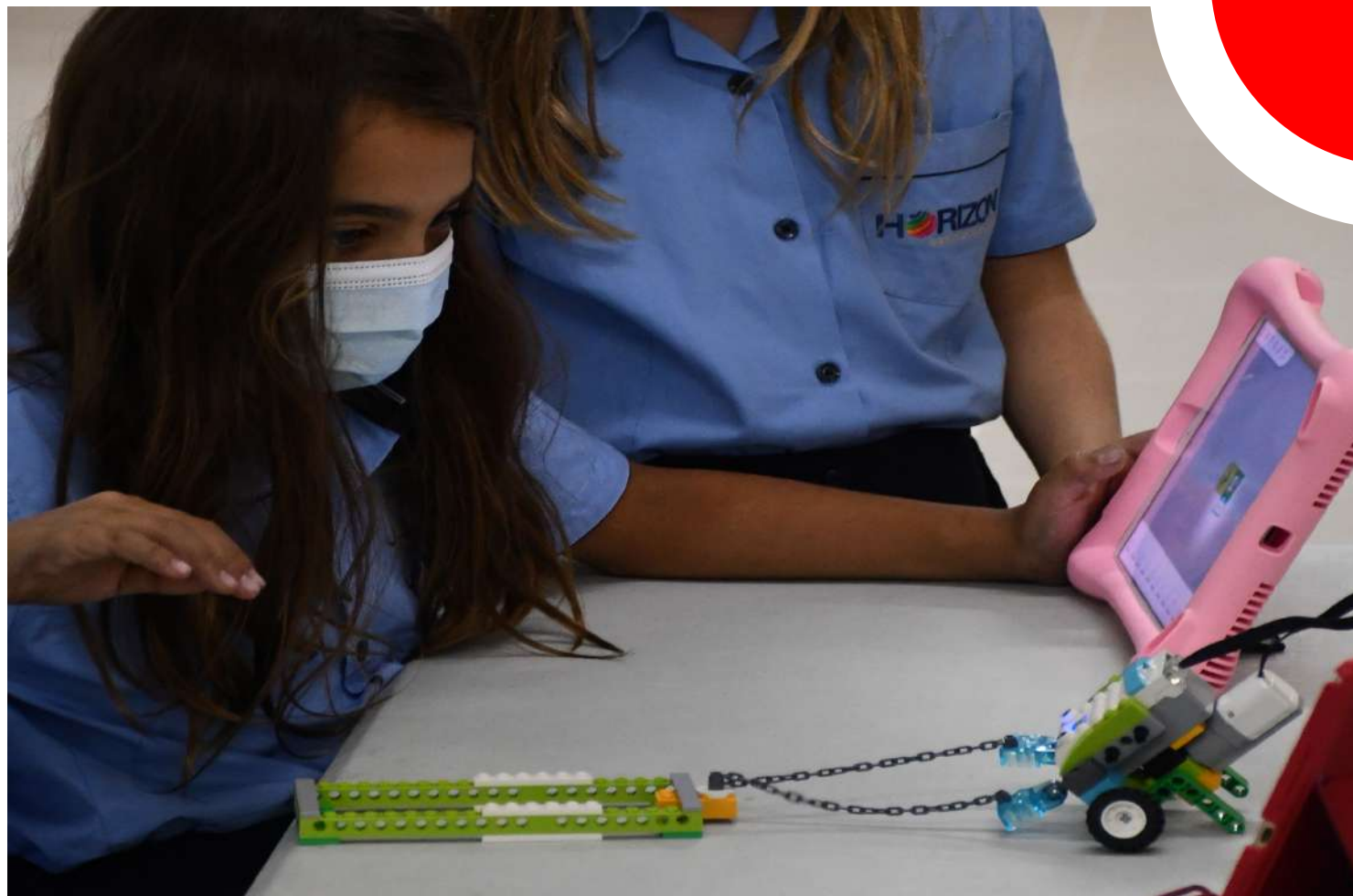
The response, drive, passion and enthusiasm was phenomenal! Credit to all of our students for their participation and commitment. Have a look at the video to see exactly what happened!



"Innovation: Imagine the future and fill in the gaps."

Brian Halligan





Students in KS1 participated in an innovation activity using Lego We Do 2.0

Their task was to create basic block programming code to pull different weights with the robotic car.

This allowed students to use their problem solving skills and also develop their understanding of basic computer programming too.

Lego We Do 2.0



Introducing LEGO Education WeDo 2.0



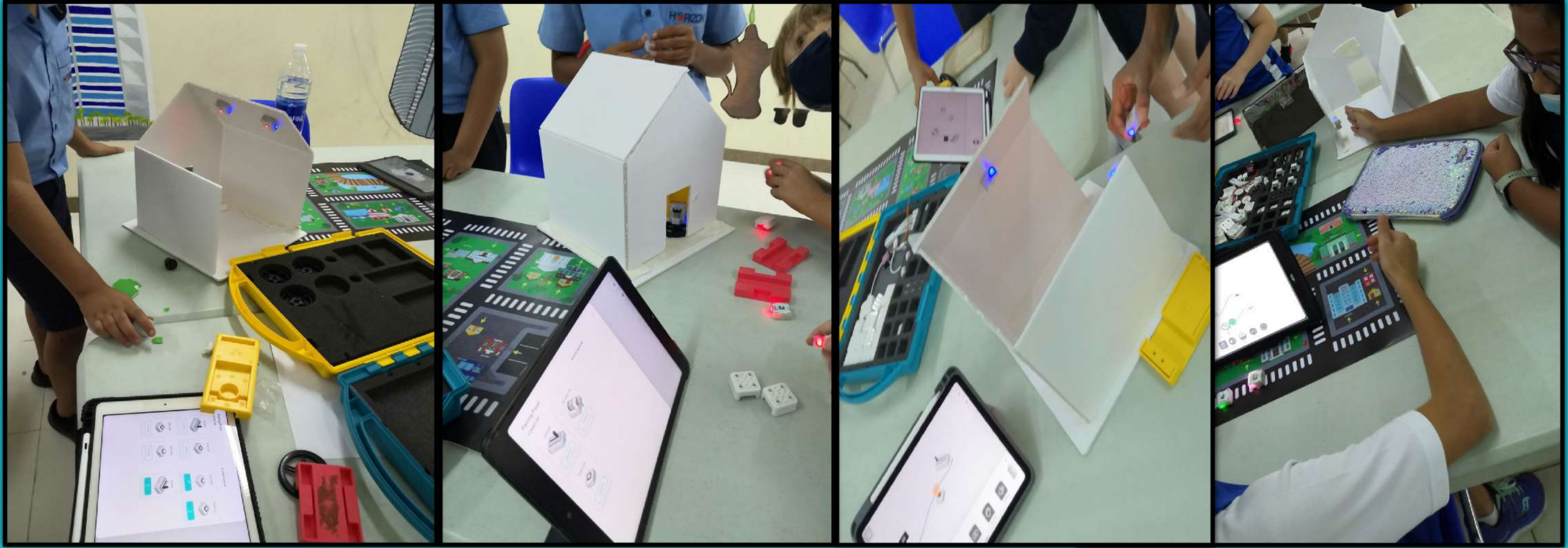
Watch later



Share



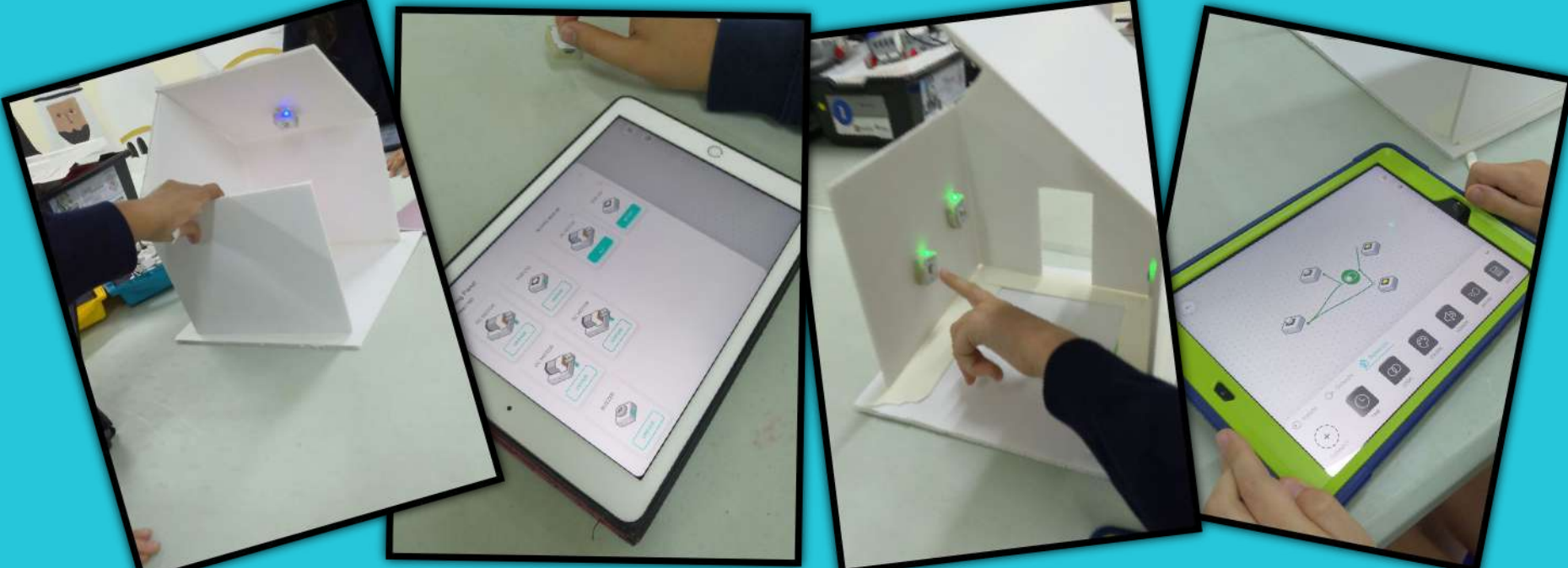
SAM Labs Smart Home



Students in KS2 participated in an innovation activity using Lego SAM Labs.

Their task was to create a smart home system using their SAM Labs technology and iPads.

This allowed students to understand basic concepts on how circuits work and how to run a smart home efficiently.



Innovation Challenge

As part of innovation week, our KS2 and KS3 students had their own innovation challenge.

They had to help solve a 3rd world problem by creating an innovative product made from primarily, a plastic water bottle.

Students had only three weeks to come up with an idea, design, create and present it to a panel of judges for the initial round of presentations on Tuesday 23rd February 2021.

After which, the finalists went through to the Grand Finale live on Zoom!

Thinking of a
MASTER PLAN 



Kubo Coding Space Mission



Students in FS had the opportunity to plan and recreate the UAE Mars Hope Probe Space mission as they used Kubo Coding to move a robot from Earth to Mars!

Our youngest programmers showed that they were able to create basic instructions using tag tiles to perform routines. Once they put the tag tile blocks together, their robot was able to move along.

Our very own Astronauts in the making! #futureready



Exhibition



Students across the school were able to visit the showcase exhibition area in the auditorium to see and interact with some of the technology used in industry today. From a 3D printer to our newest student, Amy Bot, the humanoid!

Students loved having a go with some of the technology, especially playing with the robot!

WOW



3D PRINT



Robotics



Students in KS3 were tasked to create a robot, which could move and win a race. The catch was that they could not use any tyres for wheels!

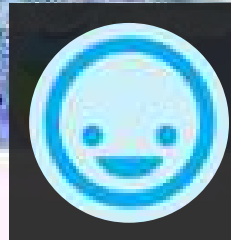
After a quick video guide, students creative juices were flowing and the room was buzzing with different ideas and concepts. Students quickly manufactured a robot that could move to see who could cross the finish line the fastest.

Students were able to use their creativity, collaboration and problem solving skills to develop their ideas, which they then had to program using the Lego Mindstorm EV3 Classroom application on their device.





ENRICHING PEOPLE, ENHANCING POTENTIAL, BECOME EXCEPTIONAL.



Evolve MasterChef

from Zareef Petkar



01:30



vimeo



Art House Competition 2021 Video

from Zareef Petkar



01:03



vimeo



Art Competition Primary

from Zareef Petkar



02:37

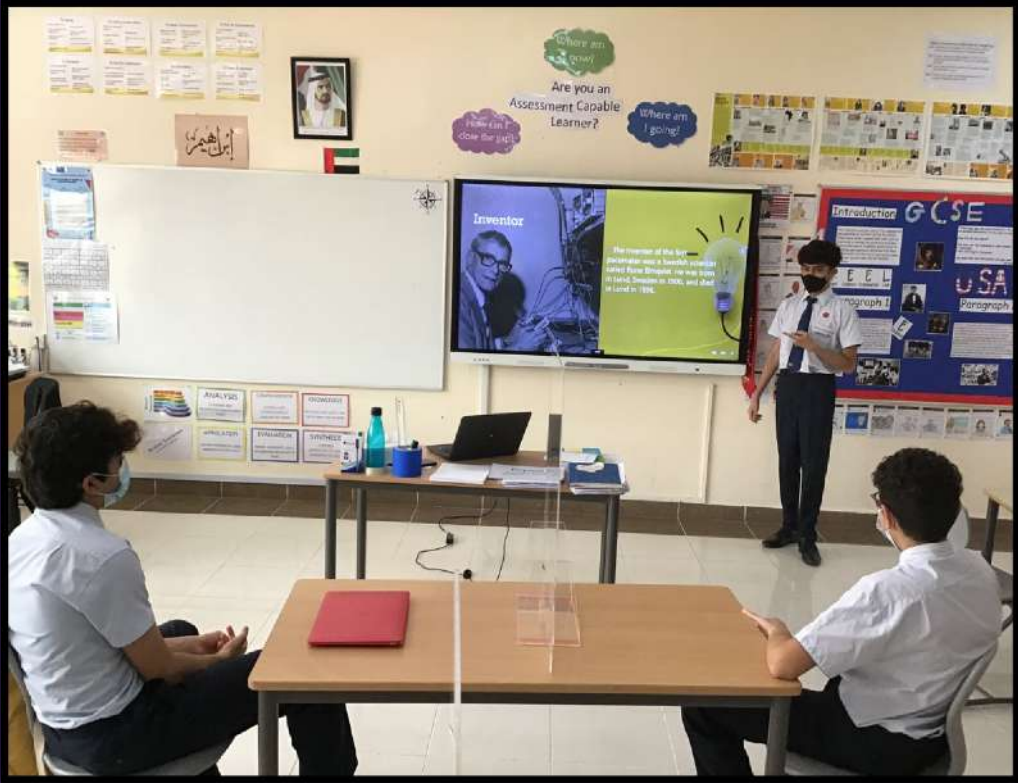


vimeo

Around School

"We have also been celebrating Innovation in French. Bernie in Year 8 created this animation about what he does with his friends in his free time!"

Ms. Makan
Head of MFL



"During innovation week, our class celebrated different innovations and inventors in our UAE Social Studies lesson. Our task was to research about our favorite inventions and how they changed the world. 9Ps presentations were on a range of different topics such as: Nuclear Physics, Radio Waves, The Electric Motor, Pacemakers and Air Conditioning. I really enjoyed this work because it allowed us to express the things we like."

Artem Bandura
Year 9



Grand Finale



Mr. Petkar



Ali Zakaria



Sohaila Yosry



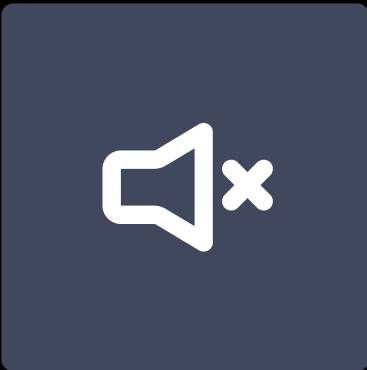
Tom Skyring

Students in KS2 and KS3 were tasked with an innovation challenge that they presented on Tuesday 23rd February 2021.

Their task was to create an innovative product from plastic water bottles, to help solve a 3rd world problem.

With over 30 projects and an initial round of presentations, 13 groups made it through to the Grand Finale, where they had to present to a panel of judges, live on Zoom for the entire school to watch!

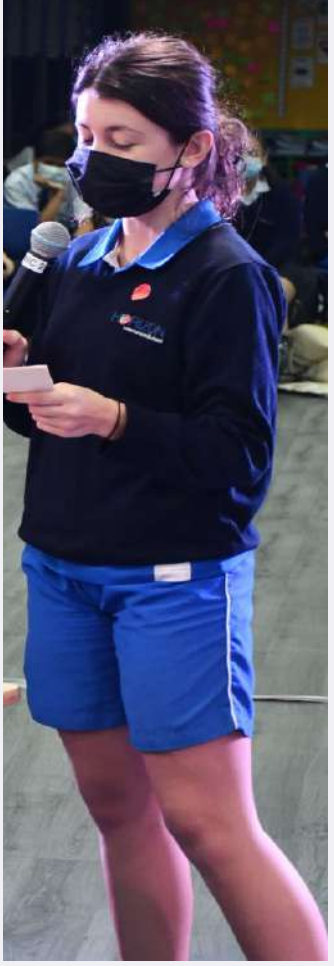
Well done to all of our finalists and I am honoured to present our Young Innovation Champions 2021!



**Eden Mckenzie
Y5**



**Sofia Z, Grace Z, Nour H, Sofia R
Y7**

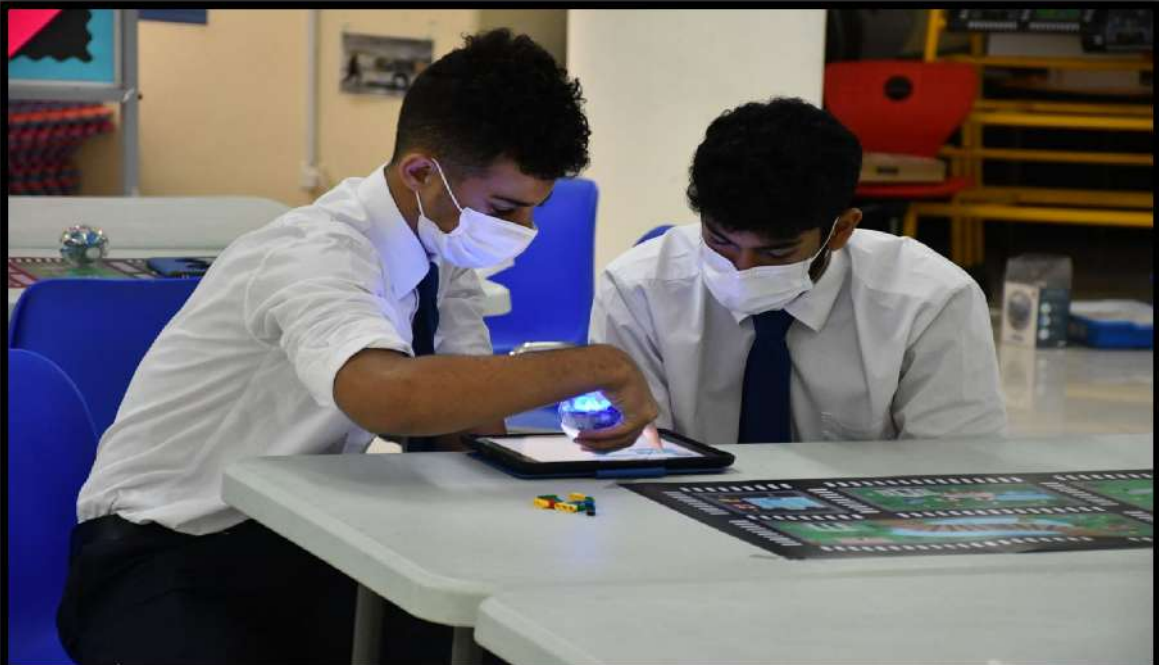


Sphero SPRK+



"For the Innovation Week activity, as Year 11 students we used the Sphero SPRK+ and programmed it with the Sphero Edu app codes to complete the task of distributing vaccines to the maximum number of houses and sending a signal to indicate that the vaccine had been collected. We completed the task in a number of different ways depending on which strategy the group chose to collect the most points."

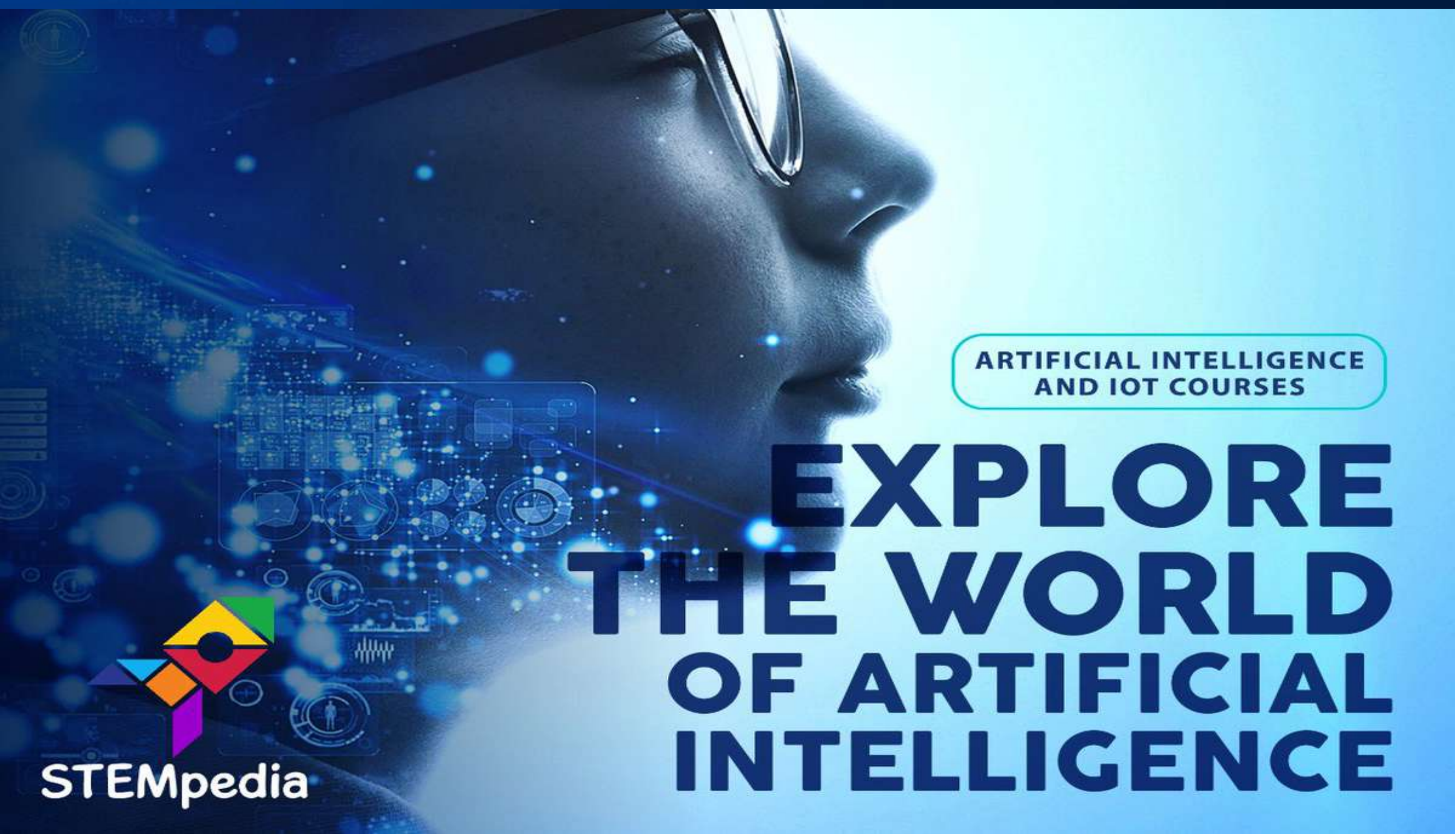
Sohaila Yosry, Milana Ponomarenko
Year 11





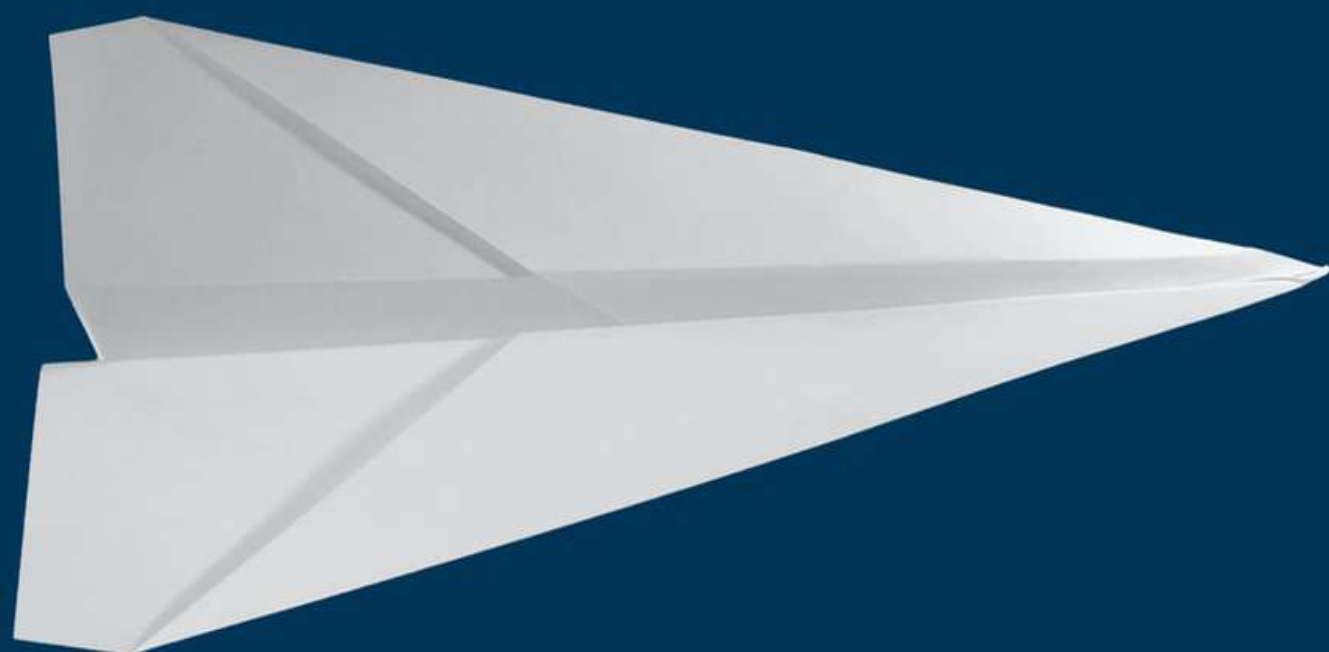
{ CODE YOUR FUTURE }

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